

ABSTRACT

The invention relates to a network, in particular a PA PROFIBUS network having redundant properties and a linear topology. Two line ends are connected to a redundancy manager which disconnects said line ends in error-free conditions and connects them in error conditions. Said redundancy manager supplies voltage to the first line end for operating customers' mobile telephones each of which is connected to the network by a branching unit. After receiving a supply voltage on one connection thereof, said branching units check the state of a cable which is connected to the other network connection and transmit the supply voltage in the faultless condition thereof only. When the redundancy manager does not detect the supply voltage on the other end of the line end at least during a predetermined space of time after voltage supply, said redundancy manager supplies the voltage thereto. A cable having a disturbance is then disconnected from the line by the adjacent branching units.